EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	14	("7047561" "7120930" "7143137" "7143188" "6058431" "6795816" RE38902 "6880089" "6360265" "6795917" "7068646" "7068647" "6980556" "7126954").pn.	USPAT	OR	ON	2007/02/01 11:12
S2	86	("20040128554" "20060013211" "20050210292" "20030009561" "20060078096" "20040095937" "20060056409" "20050201357" "20050201370" "20060215684" "20040120294" "20050259637" "20050177718" "20050226254" "20060075483" "20050216725" "20020042832" "20030084162" "20050283536" "20030050834" "20030091046" "20040028035" "20040037268" "20050008006" "20050063357" "20030233471" "20040064584" "20050105543" "20030065817" "20040143758" "20050013298" "20060182100" "20040139227" "20060173968" "20050286538" "20060120293" "20060203749" "20040109457" "20020138596" "20020141352" "20020141390" "20020150083" "20020184316" "20030188001" "20040024882" "20050076108" "20050105508" "20060168321" "20030112823" "20050005006" "20050201320" "20060053485" "20040034695" "20030140142" "20060075127" "20050105526" "20030093563" "20050086289" "20050086358" "20060098622" "20040059942" "20060227770" "20060227807" "20060045068" "20020122416" "20050033985" "20050201304" "20060272009" "20020048285" "20020161899" "20030106067" "20030200318" "20030210691" "20040057385" "20040073704" "20040100976" "20040218611" "20050223095" "20060034296" "20060212554" "20060268890" "20040139228" "20060072569" "20030149789" "20060020688" "20060274899"). pn.	US-PGPUB	OR	ON	2007/02/01 11:12

EAST Search History

S3	100	S1 S2	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 11:13
S4	2	"20040128554"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 11:19
S5	2	"20060085548" "."	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 11:16
S6	2	"6957258" .pn.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 11:17
S7	603	firewall with travers$3	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 11:18
S8	346	726/11.ccls.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 11:19
S9	5510	709/223.ccls.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 11:20
S10	5834	S8 S9	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 11:20
S11	77	S7 and S10	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 12:42
S12	4556042	"11" and @ad<="20020909"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 12:42
S13	603	firewall with travers$3	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 12:42
S14	346	726/11.ccls.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 12:42

EAST Search History

S15	5510	709/223.ccls.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 12:42
S16	5834	S14 S15	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 12:42
S17	77	S13 and S16	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 12:42
S18	42	S17 and @ad<="20020909"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 12:52
S19	16592	"voice over internet protocol" or VOIP or "voice over IP" or "voice-over IP"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 12:53
S21	23282	(SIP or "session initiation protocol")	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 12:56
S22	3312	S19 and S21	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 12:57
S23	516	S22 and travers$4	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 12:57
S24	160304	"network adress translator" or "network adress translation" or NAT or firewall	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 12:58
S25	244	S23 and S24	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 12:58
S26	80	S25 and @ad<="20020909"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 13:50
S27	7	"session border control"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 15:38

EAST Search History

S28	16592	"voice over internet protocol" or VOIP or "voice over IP" or "voice-over IP"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 16:03
S29	16592	S28	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 16:03
S30	0	S29 and "off-path"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 16:03
S31	237	S29 and ((out or off) near2 path)	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 16:25
S32	140	S31 and @ad<="20020909"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 17:46
S33	80	S32 and travers$4	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 16:35
S34	37	S28 and (travers$3 near3 client)	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 16:46
S35	67	S28 and (travers$3 near3 server)	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 16:46
S36	35	S35 and @ad<="20020909"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 17:23
S37	160304	"network adress translator" or "network adress translation" or NAT or firewall	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 17:44
S38	2279	public same private same S37	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 17:23
S39	511	S38 and travers$4	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 17:33

EAST Search History

S40	2	"5781550".pn.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 17:34
S41	2	"5793763".pn.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 17:34
S42	2	"6128664".pn.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 17:35
S43	2	"6240449".pn.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 17:35
S44	160723	"network address translator" or "network address translation" or NAT or firewall or "network address translating"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 17:46
S45	836	S44 with travers$3	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 17:46
S46	153	S45 and S28	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 17:46
S47	6346	S28 and @ad<="20020909"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 17:46
S48	31	S46 and @ad<="20020909"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 17:47
S49	461	tandberg.as.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 18:19
S50	4	S49 and NAT	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 18:20
S51	2	S49 and VOIP	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 18:20

EAST Search History

S52	5	("traversal server" or "traversal client") and (P2P or VOIP)	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 18:35
S53	34	netrake.as.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 18:32
S54	8	("traversal server" or "traversal client") and (NAT)	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 18:36
S55	11	("traversal server" or "traversal client") and ("Network Address")	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 18:37
S56	13	("traversal server" or "traversal client") and (firewall)	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 18:39
S57	793	("traversal") and (firewall)	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 18:39
S58	132	("traversal") and (firewall) and SIP	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 18:39
S59	19	S58 and @ad<="20020909"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 18:39
S60	586	voip and nat	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 19:03
S61	179	voip same nat	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 19:03
S62	49	S61 and @ad<="20020909"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/02/01 19:03

Thu, 1 Feb 2007, 5:20:32 PM EST

Edit an existing query or compose a new query in the Search Query Display.

Select a search number (#) to:

- Add a query to the Search Query Display
- Combine search queries using AND, OR, or NOT
- Delete a search
- Run a search

Search Query Display

[redacted]

Recent Search Queries

#1 ((firewall traversal)<in>metadata)

#2 ((firewall traversal)<in>metadata)

#3 (firewall<and>client traversal)

#4 ((voip<in>metadata) <and> (traversal<in>metadata))

#5 ((p2p<in>metadata) <and> (traverse<in>metadata))

#6 ((p2p<in>metadata) <and> (traverse<in>metadata))

#7 ((p2p<in>metadata) <and> (traversal<in>metadata))

[redacted]

Published before September 2002
Terms used **VOIP traversal traversing traverse**

Found **12** of **134,063**

Sort results by relevance

Display results expanded form

Save results to a Binder

Search Tips

Open results in a new window

Try an Advanced Search

Try this search in The ACM Guide

Results 1 - 12 of 12

Relevance scale

1 VOIP: Impact of link failures on VoIP performance

Catherine Boutremans, Gianluca Iannaccone, Christophe Diot

May 2002 **Proceedings of the 12th international workshop on Network and operating systems support for digital audio and video NOSSDAV '02**

Publisher: ACM Press

Full text available: pdf(198.37 KB) Additional Information: full citation, abstract, references, citings, index terms

We use active and passive traffic measurements to identify the issues involved in the deployment of a voice service over a tier-1 IP backbone network. Our findings indicate that no specific handling of voice packets (i.e. QoS differentiation) is needed in the current backbone but new protocols and mechanisms need to be introduced to provide a better protection against link failures. We discover that link failures may be followed by long periods of routing instability, during which packets can be ...

Keywords: VoIP, routing protocols, traffic measurements

2 Voice over IP

Upkar Varshney, Andy Snow, Matt McGivern, Christi Howard

January 2002 **Communications of the ACM**, Volume 45 Issue 1

Publisher: ACM Press

Full text available: pdf(113.77 KB) html(34.89 KB) Additional Information: full citation, abstract, references, index terms

How can voice over the Internet claim a greater share of the worldwide phone market from the voice infrastructure dominated for more than 100 years by the public-switched telephone network?

3 Resource allocation and management in DiffServ networks for IP telephony

Maarten Büchli, Danny De Vleeschauwer, Jan Janssen, Annelies Van Moffaert, Guido H. Petit

January 2001 **Proceedings of the 11th international workshop on Network and operating systems support for digital audio and video NOSSDAV '01**

Publisher: ACM Press

Full text available: pdf(251.15 KB) Additional Information: full citation, abstract, references, index terms

This paper discusses resource allocation and management in Differentia ted Services (DiffServ) networks, particularly in the context of IP telephony. We assume that each

node uses Weighted Fair Queuing (WFQ) schedulers in order to provide Quality of Service (QoS) to aggregates of traffic. All voice traffic destined for a certain output interface is aggregated into a single queue. When a voice flow traverses a node, its packets are placed in this queue; which is drained at a certain rate, de ...

4 Satellite-based information services: Delay bounds for voice over IP calls transported over satellite access networks

Jan Janssen, Danny De Vleeschauwer, Guido H. Petit, Rudi Windey, Jean-Marie Leroy
January 2002 **Mobile Networks and Applications**, Volume 7 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: pdf(358.14 KB) Additional Information: full citation, abstract, references, index terms

Whether or not voice calls of traditional quality can be supported between two users connected to an IP backbone via satellite access systems depends largely on the mouth-to-ear delay, an important part of which is consumed by the satellite networks themselves. In this paper, a methodology is developed to calculate upper bounds for the latter delay component as a function of the used codec, the experienced packet loss ratio, the echo levels at both sides of the connection and the chosen voice pa ...

Keywords: E-model, delay, distortion, satellite, voice over IP

5 A quick check of network performance

Jeffrey T. Hicks, John Q. Walker
January 2001 **International Journal of Network Management**, Volume 11 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(372.57 KB) Additional Information: full citation, abstract, references, citings, index terms

Have you ever tried to measure the response time across a network? Do you sometimes wonder what throughput rate you're getting over a particular link? Are you concerned about the impact of adding streaming multimedia traffic to a network? Would you like to know the exact route your data is taking? Individual tools are available to measure the throughput and response time of your applications, trace a network route, or test a network's capacity for handling ...

6 Application-layer mobility using SIP

Henning Schulzrinne, Elin Wedlund
July 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 3

Publisher: ACM Press

Full text available: pdf(1.34 MB) Additional Information: full citation, abstract, citings, index terms

Supporting mobile Internet multimedia applications requires more than just the ability to maintain connectivity across subnet changes. We describe how the Session Initiation Protocol (SIP) can help provide terminal, personal, session and service mobility to applications ranging from Internet telephony to presence and instant messaging. We also briefly discuss application-layer mobility for streaming multimedia applications initiated by RTSP.

7 Session I: QoS in ad hoc and infra-structure based wireless networks: Voice transmission in an IEEE 802.11 WLAN based access network

Andreas Köpsel, Adam Wolisz
July 2001 **Proceedings of the 4th ACM international workshop on Wireless mobile multimedia WOWMOM '01**

Publisher: ACM Press

Full text available: pdf(246.56 KB) Additional Information: full citation, abstract, references, citings, index terms

IEEE 802.11 contains a mechanism for transmission of data with realtime constraints known as *Point Coordination Function.* This supplementary medium access protocol resides on top of the basic medium access mechanism *Distributed Coordination Function* and uses a centralized polling approach. Due to the complexity of a PCF implementation and the predicted inefficiency of the PCF several proposals have been presented for providing QoS support without the need of a centralized sc ...

Keywords: DCF, IEEE 802.11, PCF, WLAN, best-effort, real-time, scheduling, voice transmission

8 Voice over IP: Real-time voice communication over the internet using packet path diversity

Yi J. Liang, Eckehard G. Steinbach, Bernd Girod

October 2001 **Proceedings of the ninth ACM international conference on Multimedia MULTIMEDIA '01**

Publisher: ACM Press

Full text available: pdf(604.02 KB) Additional Information: full citation, abstract, references, citings, index terms

The quality of real-time voice communication over best-effort networks is mainly determined by the delay and loss characteristics observed along the network path. Excessive playout buffering at the receiver is prohibitive and significantly delayed packets have to be discarded and considered as late loss. We propose to improve the tradeoff among delay, late loss rate, and speech quality using multi-stream transmission of real-time voice over the Internet, where multiple redundant descriptions of ...

Keywords: adaptive playout scheduling, forward error correction, multi-path, multi-stream transmission, multiple description coding, packet path diversity, transmission, voice over IP

9 Towards junking the PBX: deploying IP telephony

Wenyu Jiang, Jonathan Lennox, Henning Schulzrinne, Kundan Singh

January 2001 **Proceedings of the 11th international workshop on Network and operating systems support for digital audio and video NOSSDAV '01**

Publisher: ACM Press

Full text available: pdf(312.40 KB) Additional Information: full citation, abstract, references, citings, index terms

We describe the architecture and implementation of our Internet teleph ony test-bed intended to replace the departmental PBX (telephone switch). It interworks with the traditional telephone networks via a PSTN/IP gateway. It also serves as a corporate or campus infrastructure for existing and future services like web, email, video and streaming media. Initially intended for a few users, it will eventually replace the plain old telephones from our offices, due to the cost benefit and new ...

Keywords: PSTN/IP interoperability, SIP, VoIP test-bed, internet telephony deployment

10 Transporting voice traffic over packet networks

Larry Greenstein

July 1998 **International Journal of Network Management**, Volume 8 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(201.37 KB) Additional Information: full citation, abstract, index terms

POTS networks are being rapidly superceded by newer, packet-based ones, which allows a greater facility for voice traffic. This article explores the practical issues involved in deploying voice networks over ATM, frame relay and IP. © 1998 by John Wiley & Sons, Ltd.

11 Business: the 8th Layer: the 'Big Pipe' theory of network integration

Kate Gerwig
November 1998 **netWorker**, Volume 2 Issue 5
Publisher: ACM Press
Full text available: pdf(298.45 KB) Additional Information: full citation, index terms

12 From voice-band modems to DSL technologies

September 2001 **International Journal of Network Management**, Volume 11 Issue 5
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(170.80 KB) Additional Information: full citation, abstract, references, index terms, review

This paper provides an overview of the evolution of digital transmission in the copper access network from voice-band modems to Digital Subscriber Line (DSL) technologies. The various types of DSL technology are described. Copyright © 2001 John Wiley & Sons, Ltd.

Results 1 - 12 of 12